



DOCKET NO. NL 000211 (PHIL06-00211)
U.S. SERIAL NO. 09/837,937
PATENT

IN THE CLAIMS

Please amend the claims as follows.

- Sub
C1
1. (Currently Amended) An assembly comprising:
a display device provided with a pattern of pixels (3) driven by a control circuit (8), and
~~and~~ an illumination system for illuminating the display device,
said illumination system comprising a light-emitting panel (11) and at least one light source
(16, 16', 16'', ...), said light source (16, 16', 16'', ...) being associated with the light-emitting panel
(11), wherein:
the light source comprises at least three sets of light-emitting diodes, (16, 16', 16'', ...)
wherein each set of light-emitting diodes has a different light-emission wavelength, and
the control circuit (8) also drives the luminous fluxes of the light-emitting diodes
(16, 16', 16'', ...) in dependence upon an image to be displayed by the display device.
- B1
2. (Currently Amended) An assembly as claimed in claim 1, wherein the control
circuit (8) varies ~~the intensities~~ an intensity of the light emitted by each set of the light-emitting
diodes (16, 16', 16'', ...) in response to ~~the~~ an illumination level of the image to be displayed by the
display device.

DOCKET No. NL 000211 (PHIL06-00211)
U.S. SERIAL No. 09/837,937
PATENT

3. (Currently Amended) An assembly as claimed in claim 1, wherein the intensity of the light emitted by each set of the light-emitting diodes (16, 16', 16'', ...) can be adjusted on a frame-to-frame basis.

4. (Currently Amended) An assembly as claimed in claim 1, wherein the intensity of the light emitted by each set of the light-emitting diodes (16, 16', 16'', ...) can be adjusted for each color on a frame-to-frame basis.

B! Boot
5. (Currently Amended) An assembly as claimed in claim 1, wherein the light source comprises at least four sets of light-emitting diodes, (16, 16', 16'', ...) wherein each set of light-emitting diodes has a different light-emission wavelength.

6. (Currently Amended) An ~~illumination system assembly~~ as claimed in claim 1, wherein each diode in each set of the light-emitting diodes (16, 16', 16'', ...) ~~comprises~~ has a luminous flux of at least five lumens (5 lm).

7. (Currently Amended) An ~~illumination system assembly~~ as claimed in claim 6, wherein each set of the light-emitting diodes (16, 16', 16'', ...) ~~are~~ is mounted on a printed circuit board.

DOCKET NO. NL 000211 (PHIL06-00211)
U.S. SERIAL NO. 09/837,937
PATENT

8. (Currently Amended) A display device for use ~~in an assembly as claimed in claim 1~~ with an illumination system, the illumination system comprising a light-emitting panel and at least one light source, the light source being associated with the light-emitting panel and comprising at least three sets of light-emitting diodes, each set of light-emitting diodes having a different light-emission wavelength, the display device comprising:

a pattern of pixels; and

a control circuit operable to drive the pixels, the control circuit also operable to drive luminous fluxes of the light-emitting diodes in dependence upon an image to be displayed by the display device.

9. (Currently Amended) An illumination system for use ~~in an assembly as claimed in claim 1~~ with a display device, the display device provided with a pattern of pixels driven by a control circuit, the illumination system for illuminating the display device and comprising:

a light-emitting panel; and

at least one light source associated with the light-emitting panel;

wherein the light source comprises at least three sets of light-emitting diodes, each set of light-emitting diodes having a different light-emission wavelength; and

wherein the control circuit is operable to drive luminous fluxes of the light-emitting diodes in dependence upon an image to be displayed by the display device.

DOCKET NO. NL 000211 (PHIL06-00211)
U.S. SERIAL No. 09/837,937
PATENT

10. (Currently Amended) An assembly as claimed in claim 1, wherein a first set of light-emitting diodes (16) has a red light-emission wavelength, and a second set of light-emitting diodes (16') has a green light-emission wavelength, and a third set of light-emitting diodes (16'') has a blue light-emission wavelength.

11. (Currently Amended) An assembly as claimed in claim 2, wherein a first set of light-emitting diodes (16) has a red light-emission wavelength, and a second set of light-emitting diodes (16') has a green light-emission wavelength, and a third set of light-emitting diodes (16'') has a blue light-emission wavelength.

12. (Currently Amended) An assembly as claimed in claim 2, wherein the intensity of light emitted by each set of the light-emitting diodes (16, 16', 16'', ...) can be adjusted on a frame-to-frame basis.

13. (Currently Amended) An assembly as claimed in claim 2, wherein the intensity of light emitted by each set of the light-emitting diodes (16, 16', 16'', ...) can be adjusted for each color on a frame-to-frame basis.

DOCKET NO. NL 000211 (PHIL06-00211)
U.S. SERIAL NO. 09/837,937
PATENT

14. (Currently Amended) An assembly as claimed in claim 5, wherein a first set of light-emitting diodes (16) has a red light-emission wavelength, and a second set of light-emitting diodes (16') has a green light-emission wavelength, and a third set of light-emitting diodes (16'') has a blue light-emission wavelength, and a fourth set of light-emitting diodes (16''') has an amber light-emission wavelength.

Baut
15. (Currently Amended) An ~~illumination system~~ assembly as claimed in claim 2, wherein each diode in each set of the light-emitting diodes (16, 16', 16'', ...) ~~comprises~~ has a luminous flux of at least five lumens (5 lm).

16. (Currently Amended) An ~~illumination system~~ assembly as claimed in claim 15, wherein each set of the light-emitting diodes (16, 16', 16'', ...) ~~are~~ is mounted on a printed circuit board.

DOCKET NO. NL 000211 (PHIL06-00211)
U.S. SERIAL NO. 09/837,937
PATENT

17. (Currently Amended) A display device for use ~~in an assembly as claimed in claim~~
2 with an illumination system, the illumination system comprising a light-emitting panel and at least
one light source, the light source being associated with the light-emitting panel and comprising at
least three sets of light-emitting diodes, each set of light-emitting diodes having a different light-
emission wavelength, the display device comprising:

a pattern of pixels; and

Best
a control circuit operable to drive the pixels, the control circuit also operable to drive
luminous fluxes of the light-emitting diodes in dependence upon an image to be displayed by the
display device;

wherein the control circuit is operable to vary an intensity of light emitted by each set of the
light-emitting diodes in response to an illumination level of the image to be displayed by the display
device.

18. (Currently Amended) A display device as claimed in claim 17 wherein the light
source comprises at least four sets of light-emitting diodes, (16, 16', 16'', ...) wherein each set of
light-emitting diodes has a different light-emission wavelength.

DOCKET NO. NL 000211 (PHIL06-00211)
U.S. SERIAL NO. 09/837,937
PATENT

19. (Currently Amended) An illumination system for use in an assembly as claimed in ~~claim 2~~ with a display device, the display device provided with a pattern of pixels driven by a control circuit, the illumination system for illuminating the display device and comprising:

a light-emitting panel; and

at least one light source associated with the light-emitting panel;

wherein the light source comprises at least three sets of light-emitting diodes, each set of light-emitting diodes having a different light-emission wavelength;

wherein the control circuit is operable to drive luminous fluxes of the light-emitting diodes in dependence upon an image to be displayed by the display device; and

wherein the control circuit is further operable to vary an intensity of light emitted by each set of the light-emitting diodes in response to an illumination level of the image to be displayed by the display device.

20. (Currently Amended) An illumination system display device as claimed in claim 19 wherein the light source comprises at least four sets of light-emitting diodes, ~~(16, 16', 16'', ...)~~ wherein each set of light-emitting diodes has a different light-emission wavelength.